



Appendix A

RF Test Data for BT LE (Conducted Measurement)

Product Name: MUZIM L1 Data Hub

Test Model: MUZIM-L1

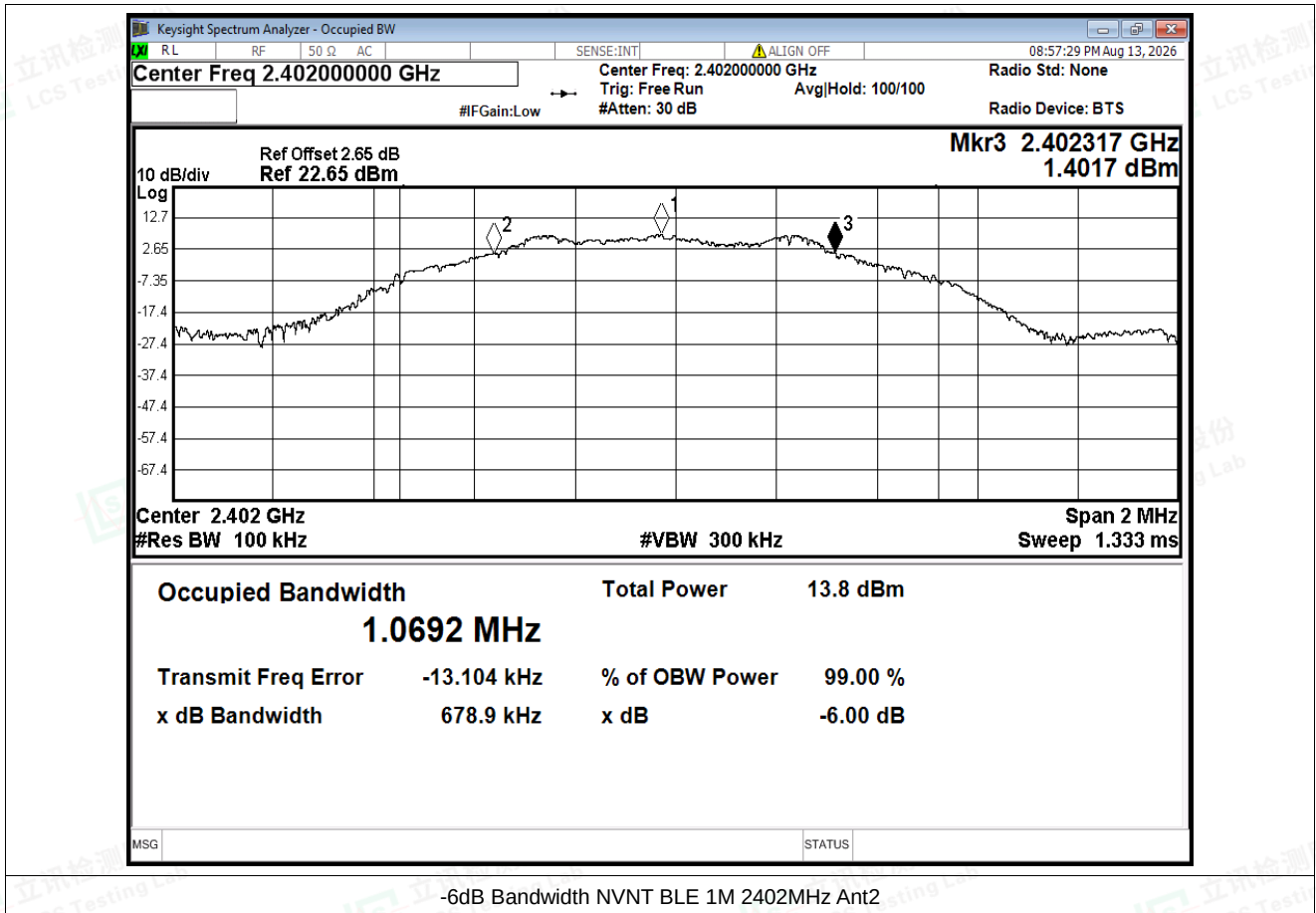
Environmental Conditions

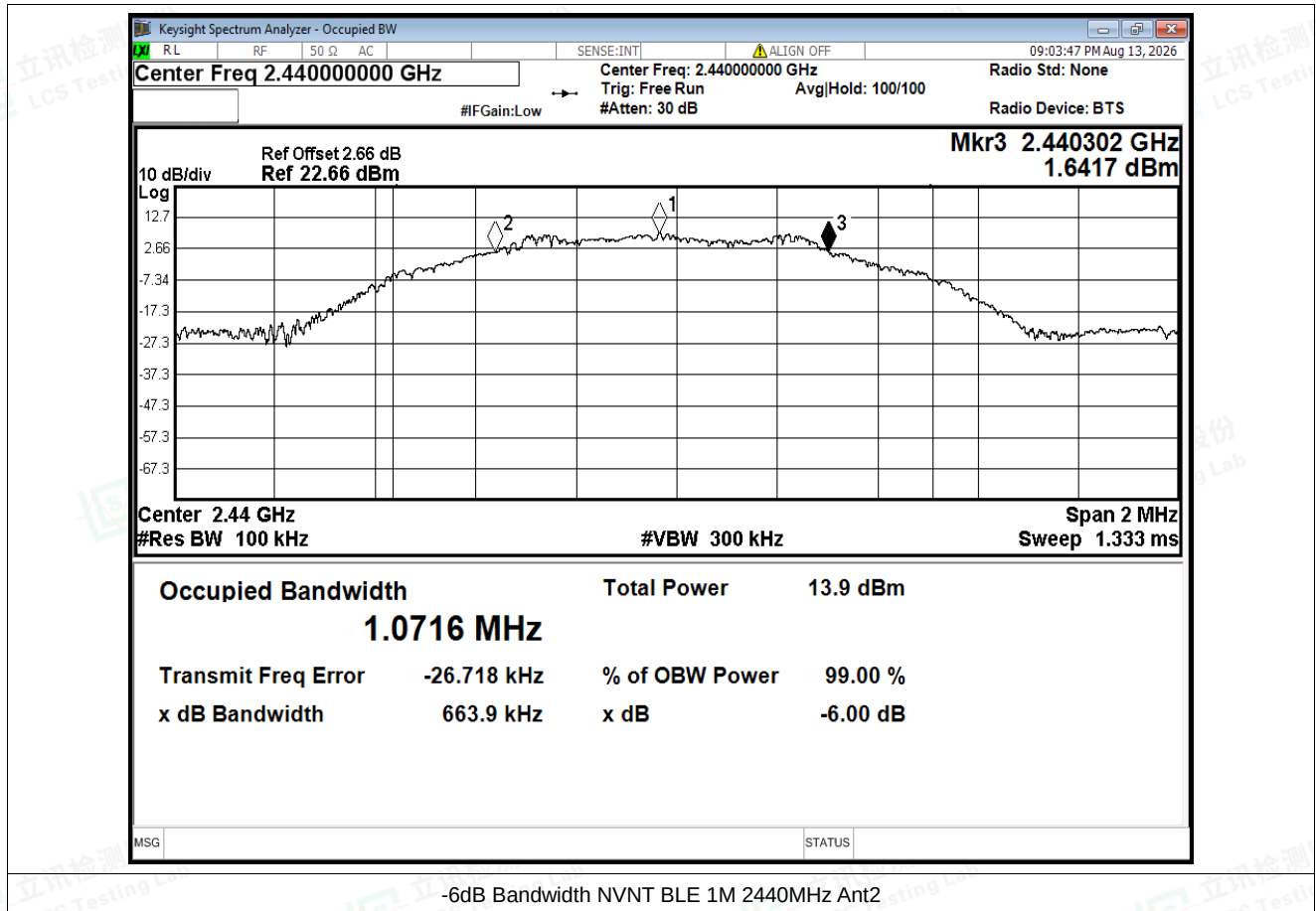
Temperature:	24.2°C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Faith Li
Supervised by:	Can Kun

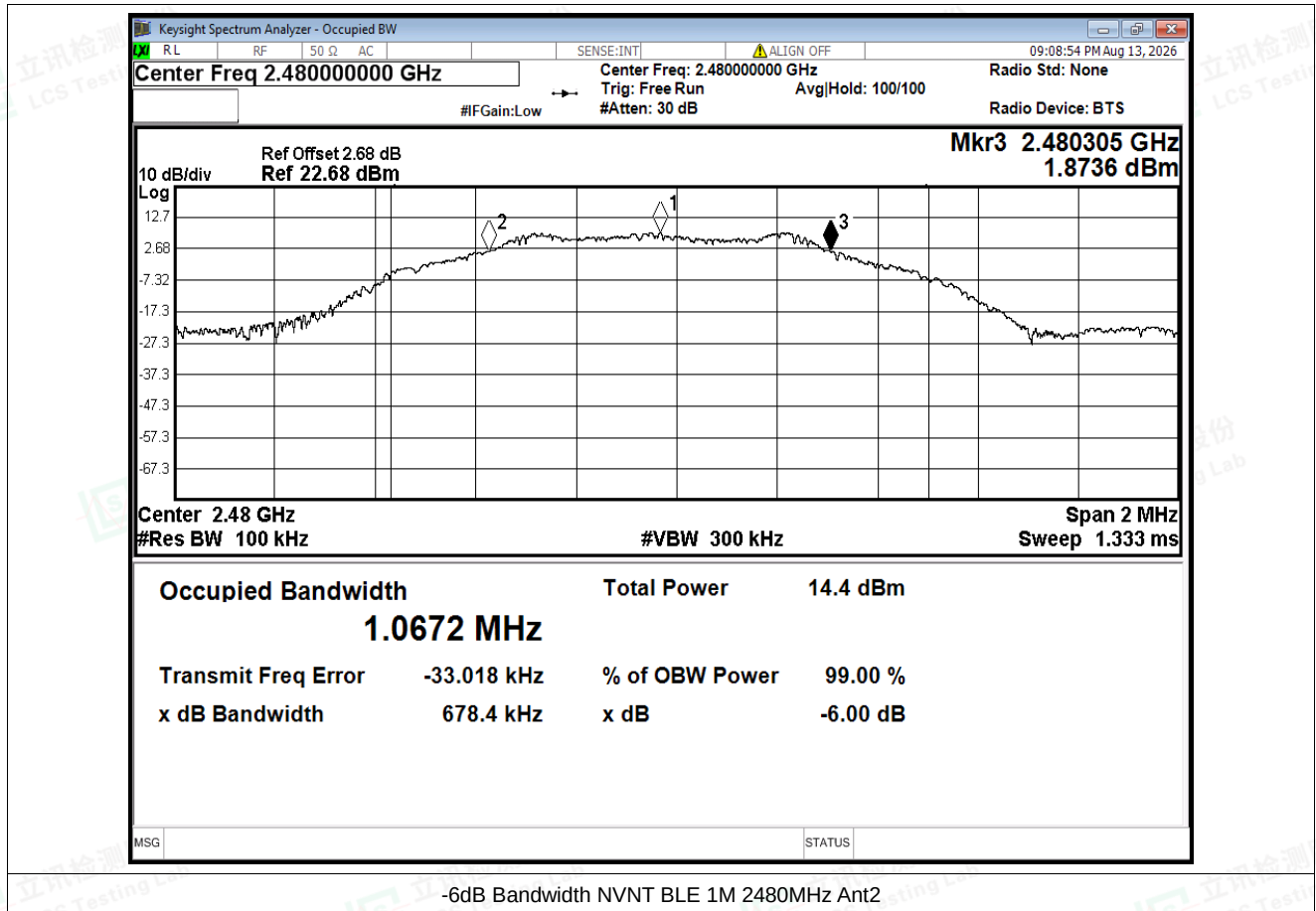


A.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant2	0.6789	0.5	Pass
NVNT	BLE 1M	2440	Ant2	0.6639	0.5	Pass
NVNT	BLE 1M	2480	Ant2	0.6784	0.5	Pass



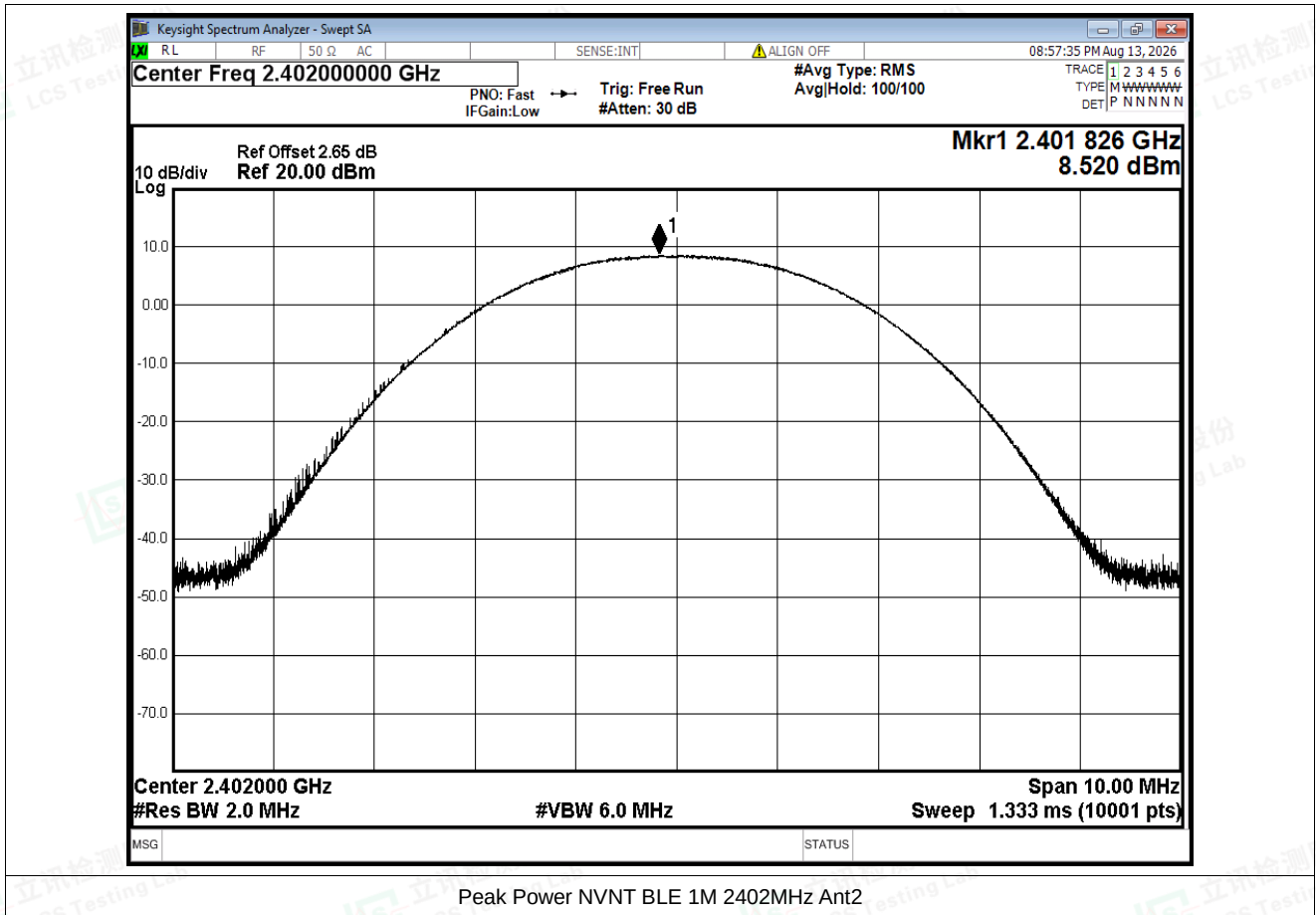


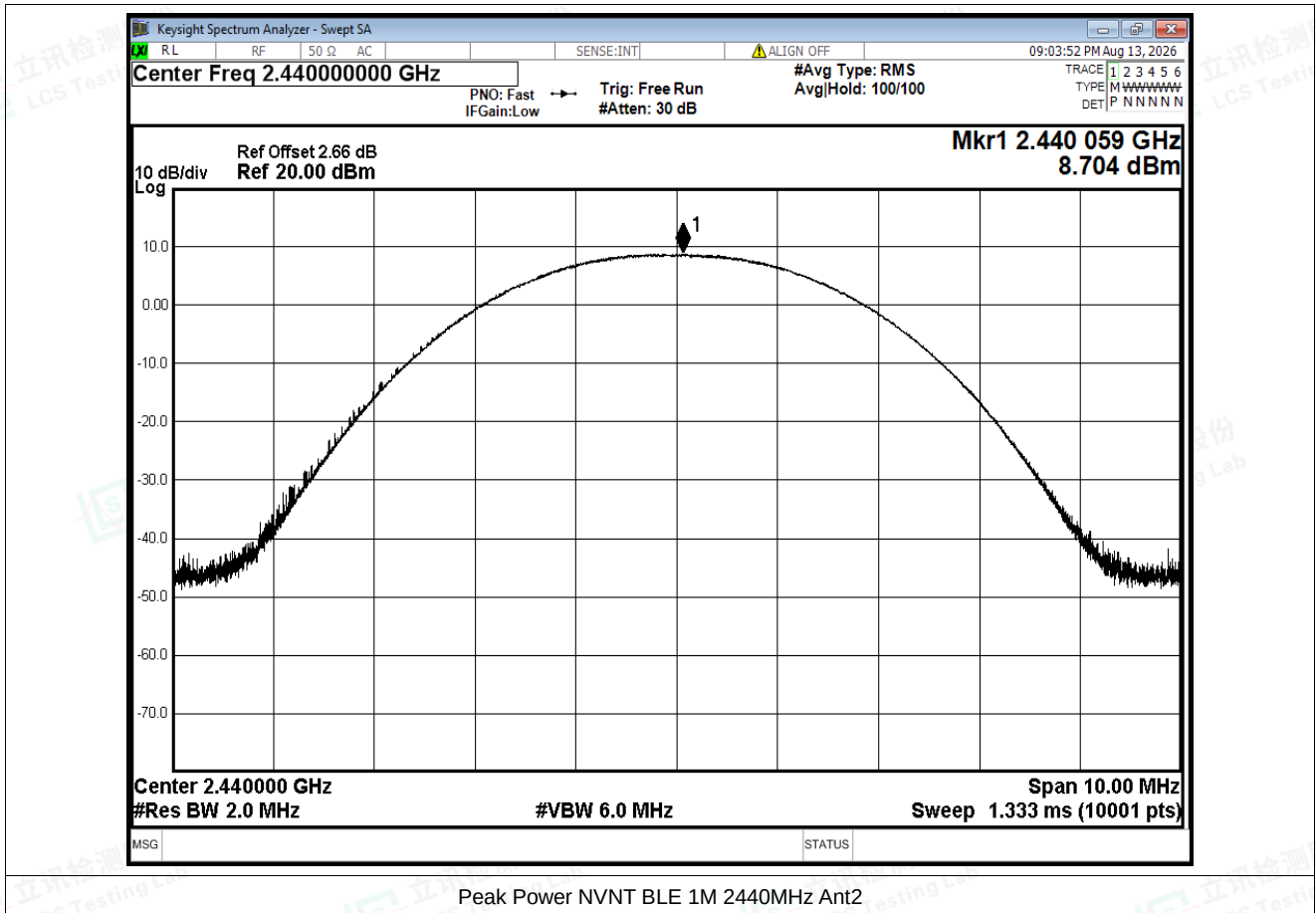


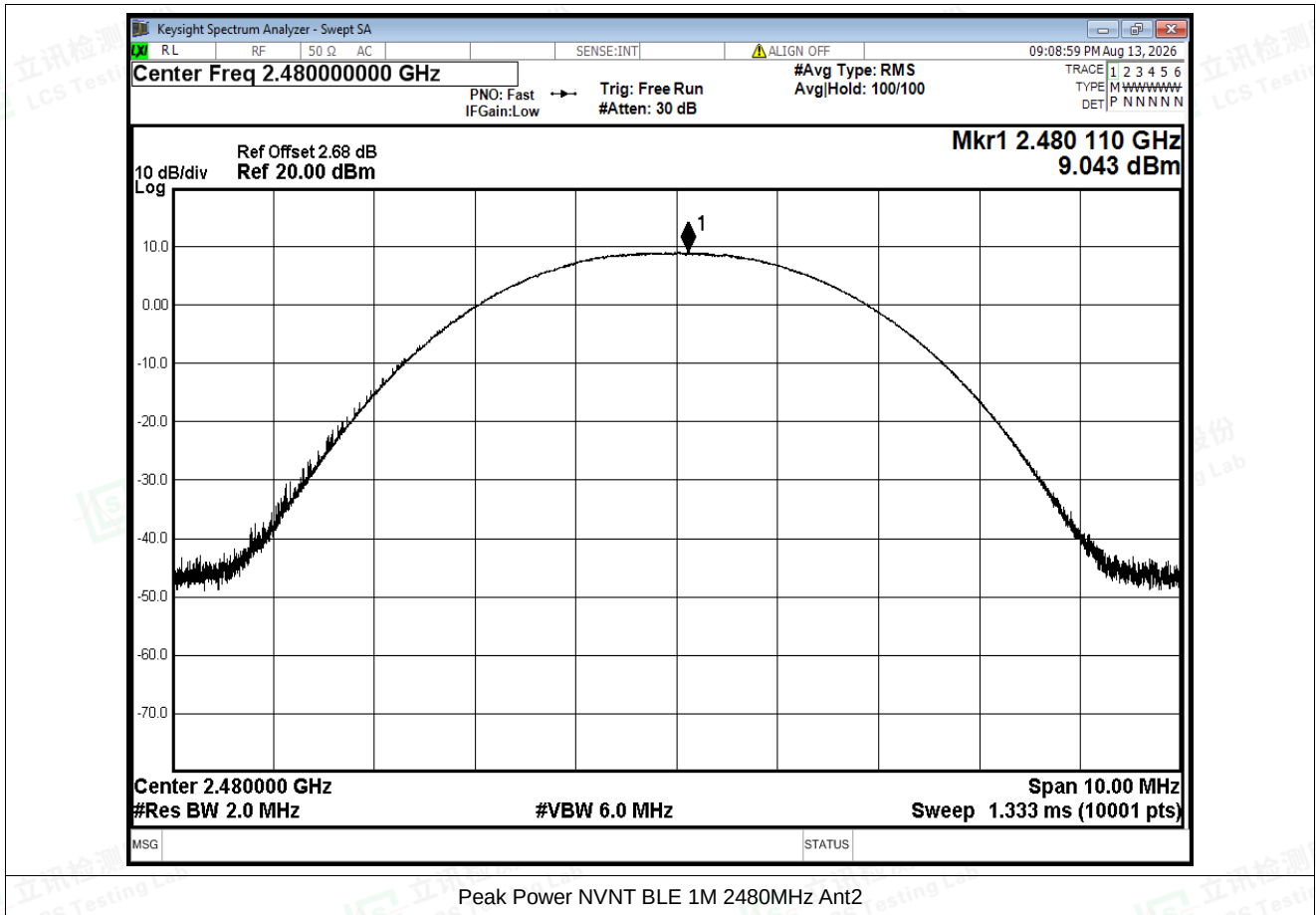


A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	BLE 1M	2402	Ant2	8.52	30	Pass
NVNT	BLE 1M	2440	Ant2	8.7	30	Pass
NVNT	BLE 1M	2480	Ant2	9.04	30	Pass



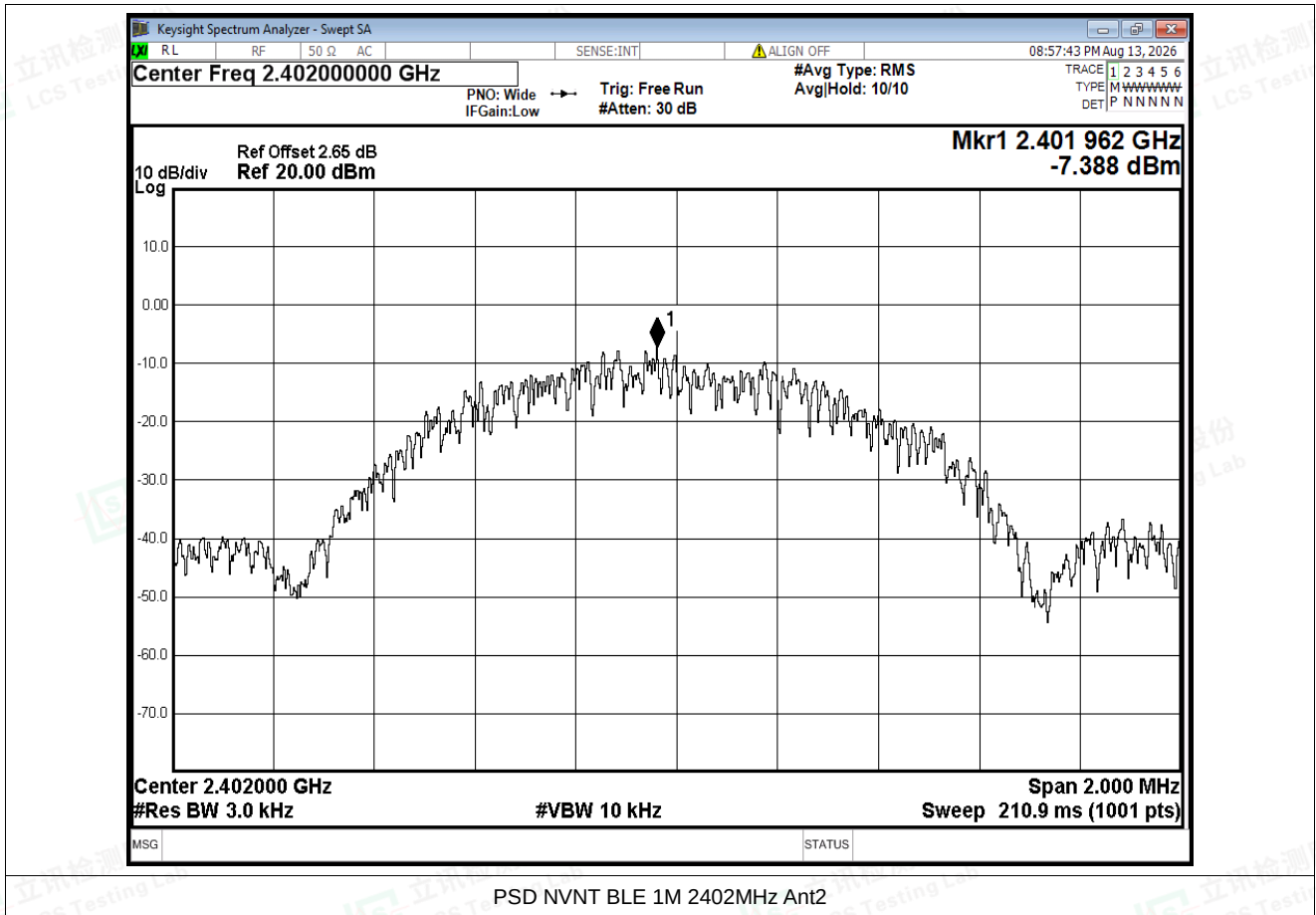


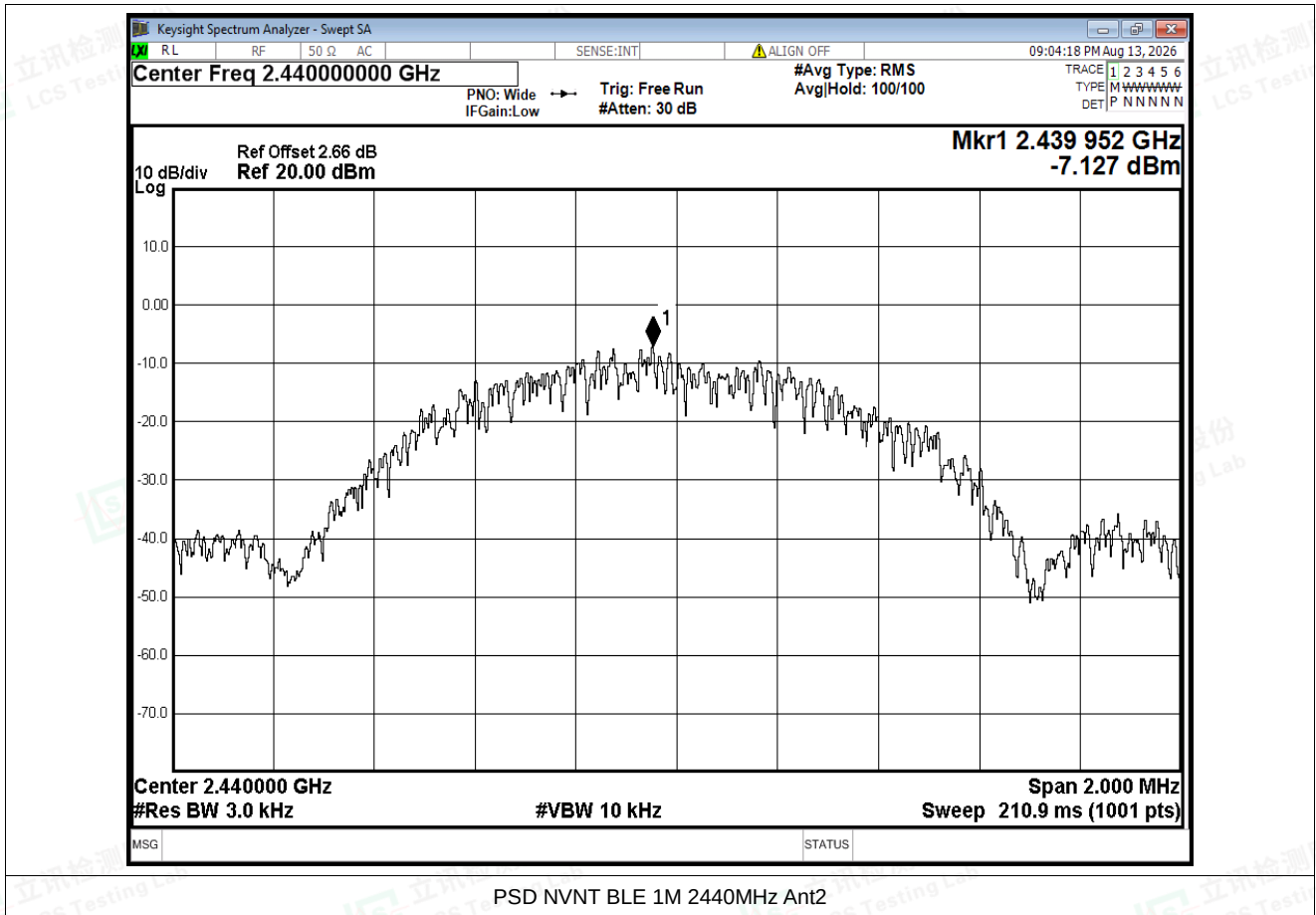


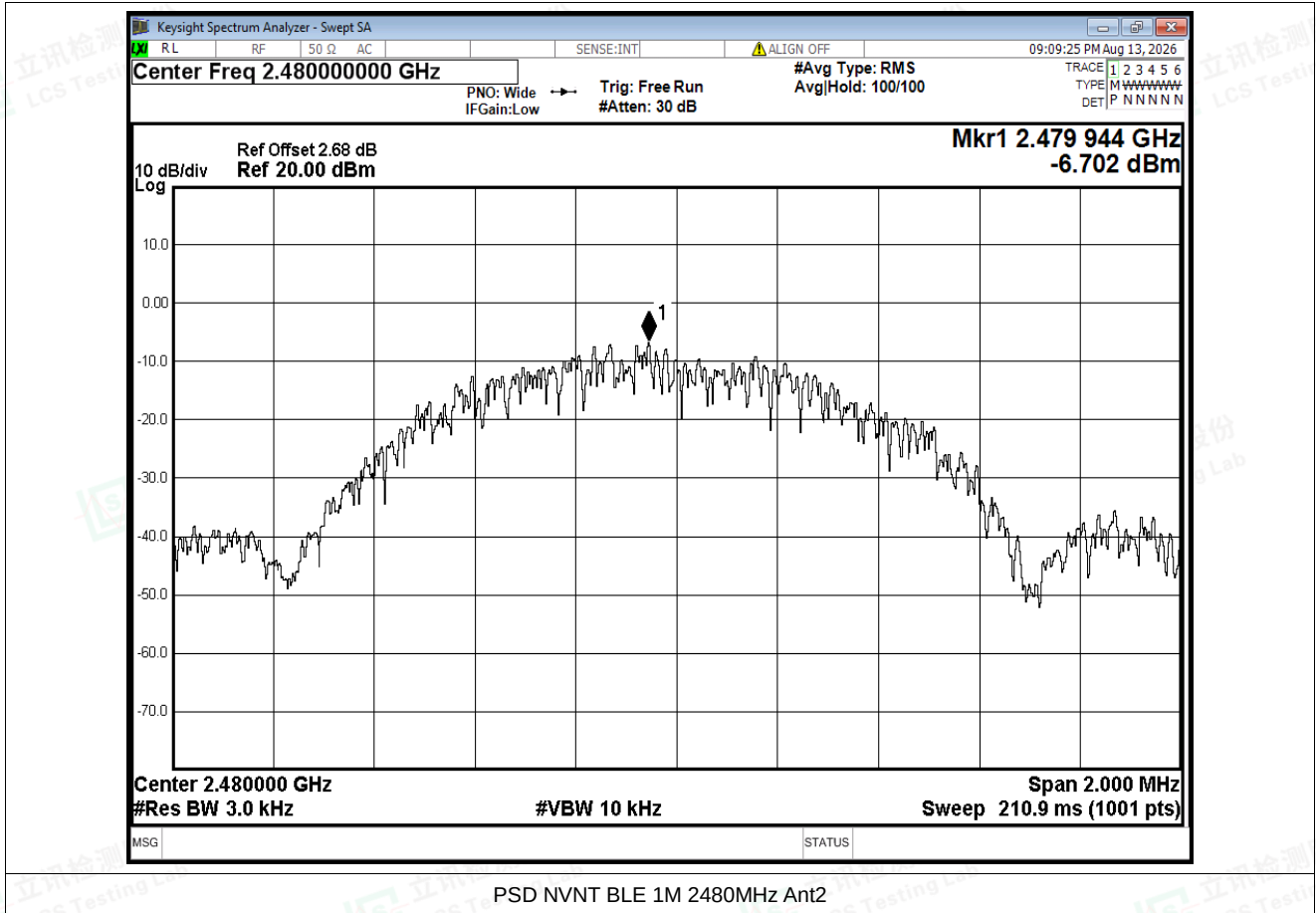


A.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant2	-7.39	8	Pass
NVNT	BLE 1M	2440	Ant2	-7.13	8	Pass
NVNT	BLE 1M	2480	Ant2	-6.7	8	Pass



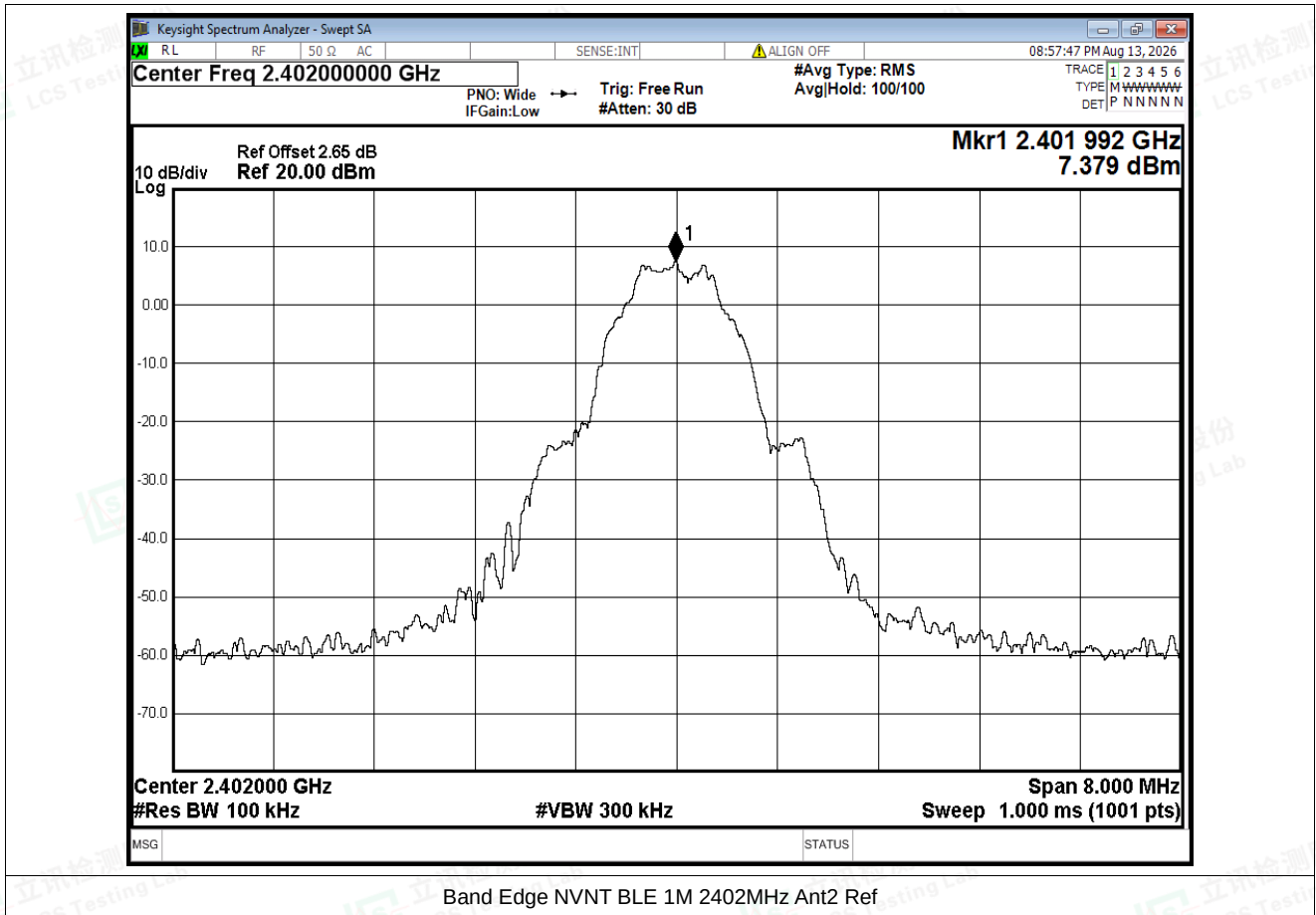


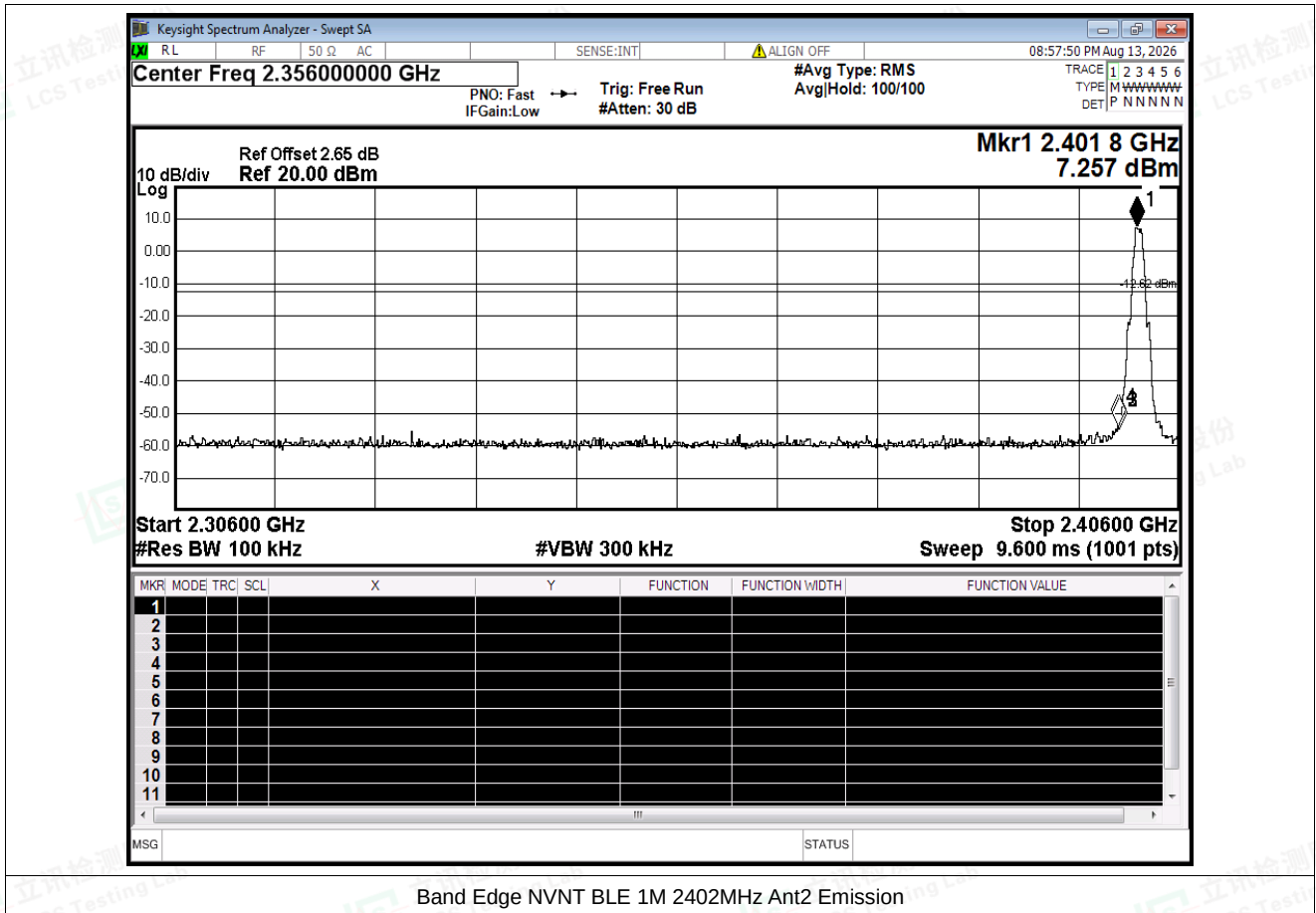


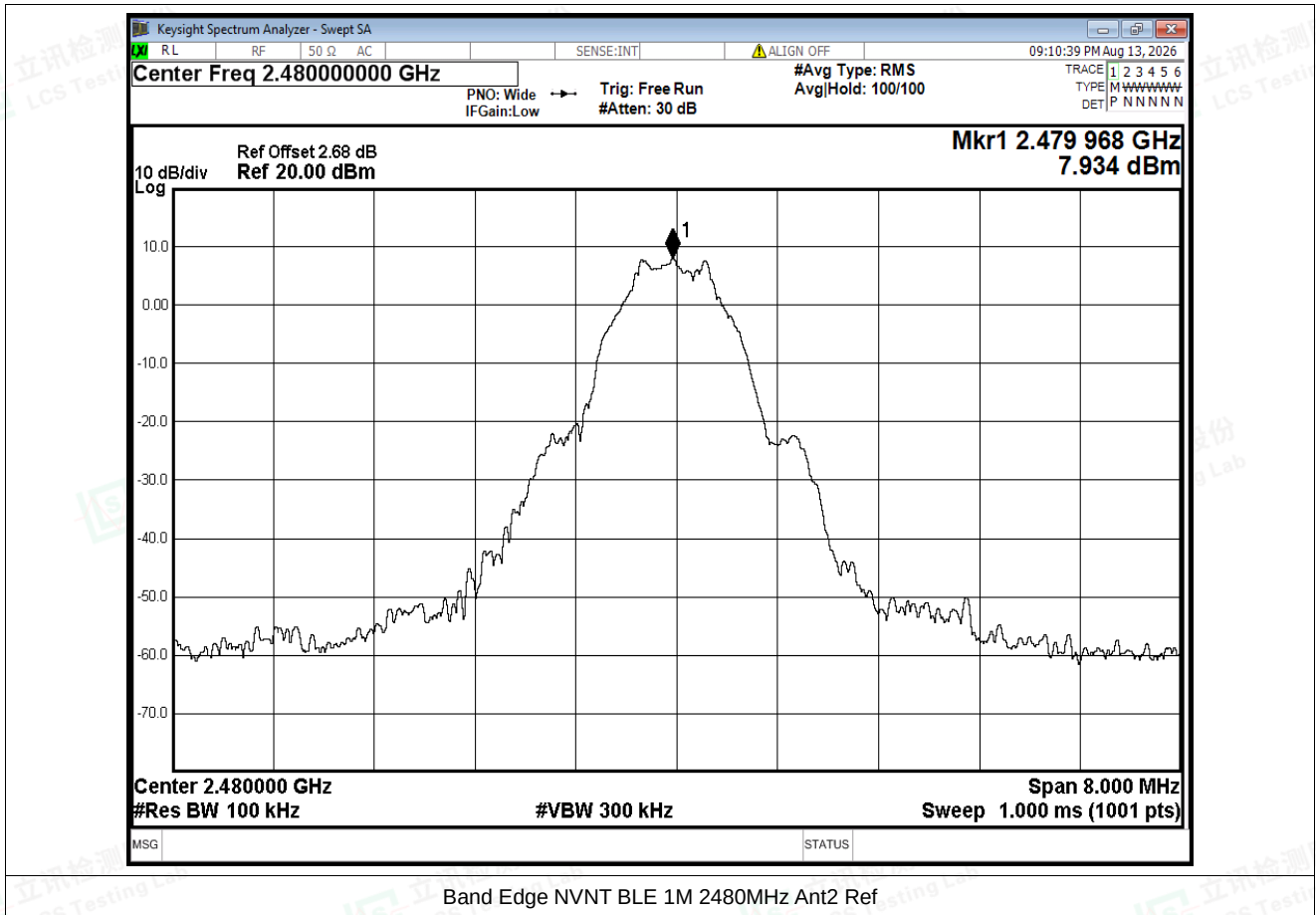


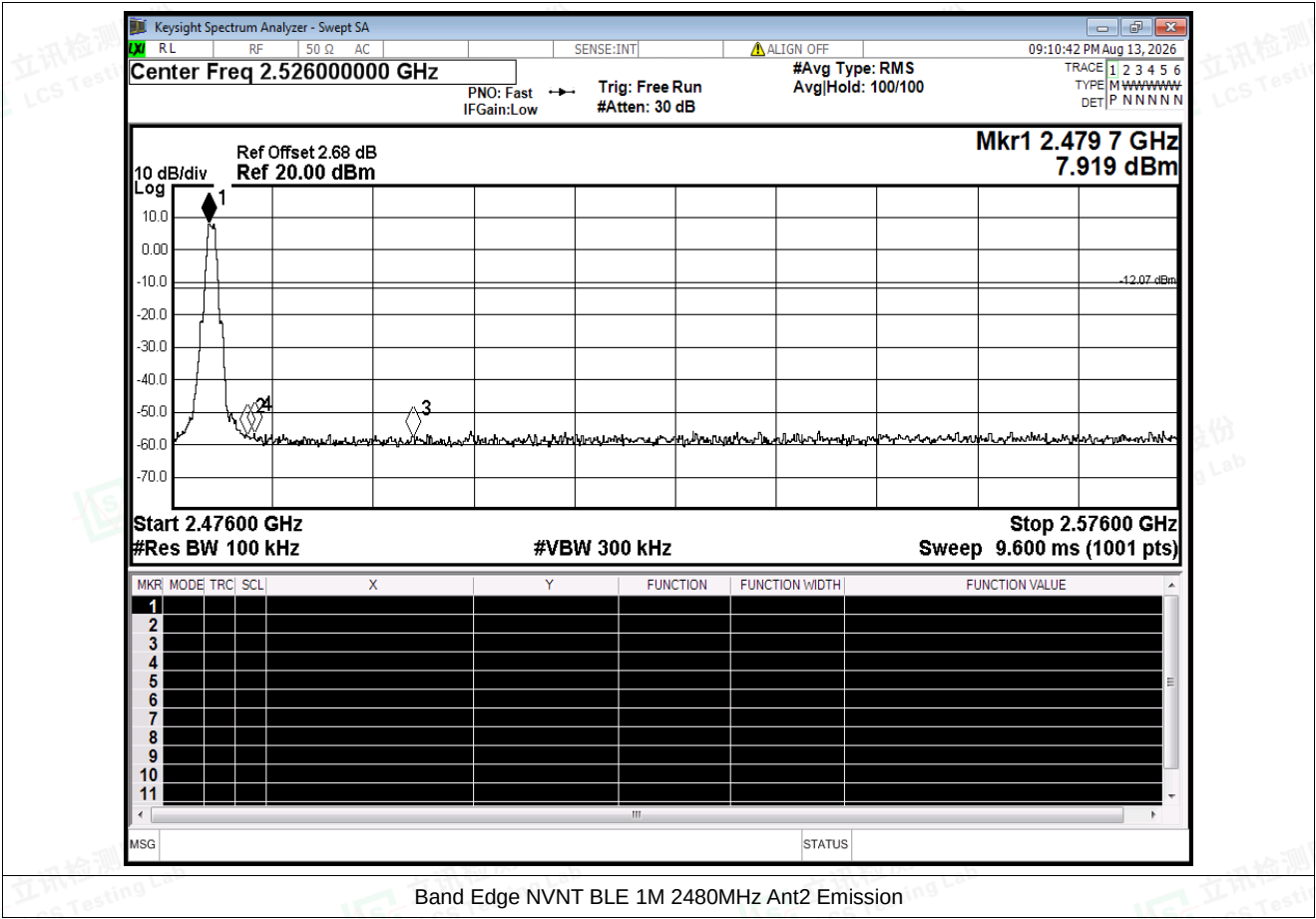
A.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant2	-61.06	-20	Pass
NVNT	BLE 1M	2480	Ant2	-64.45	-20	Pass





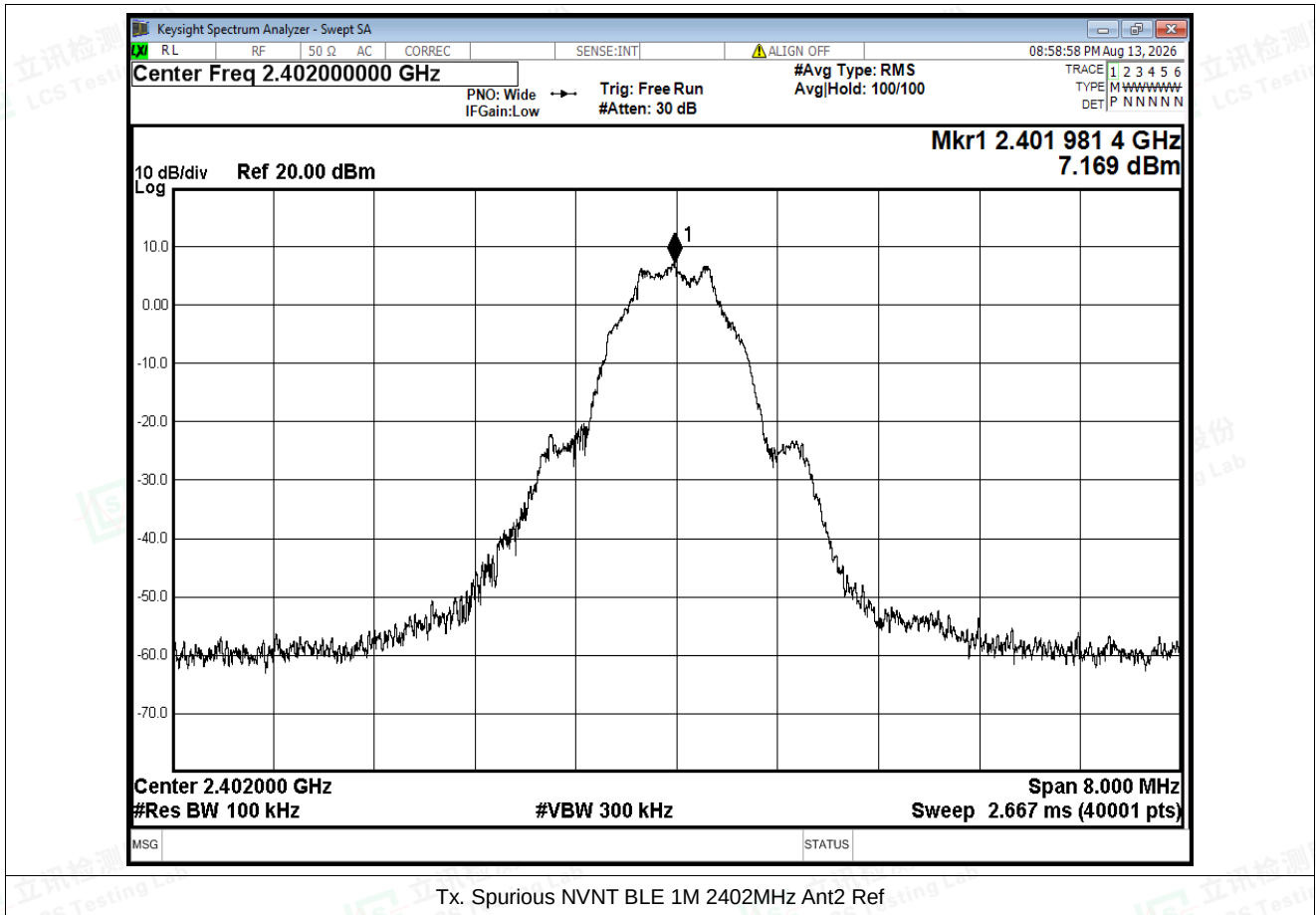


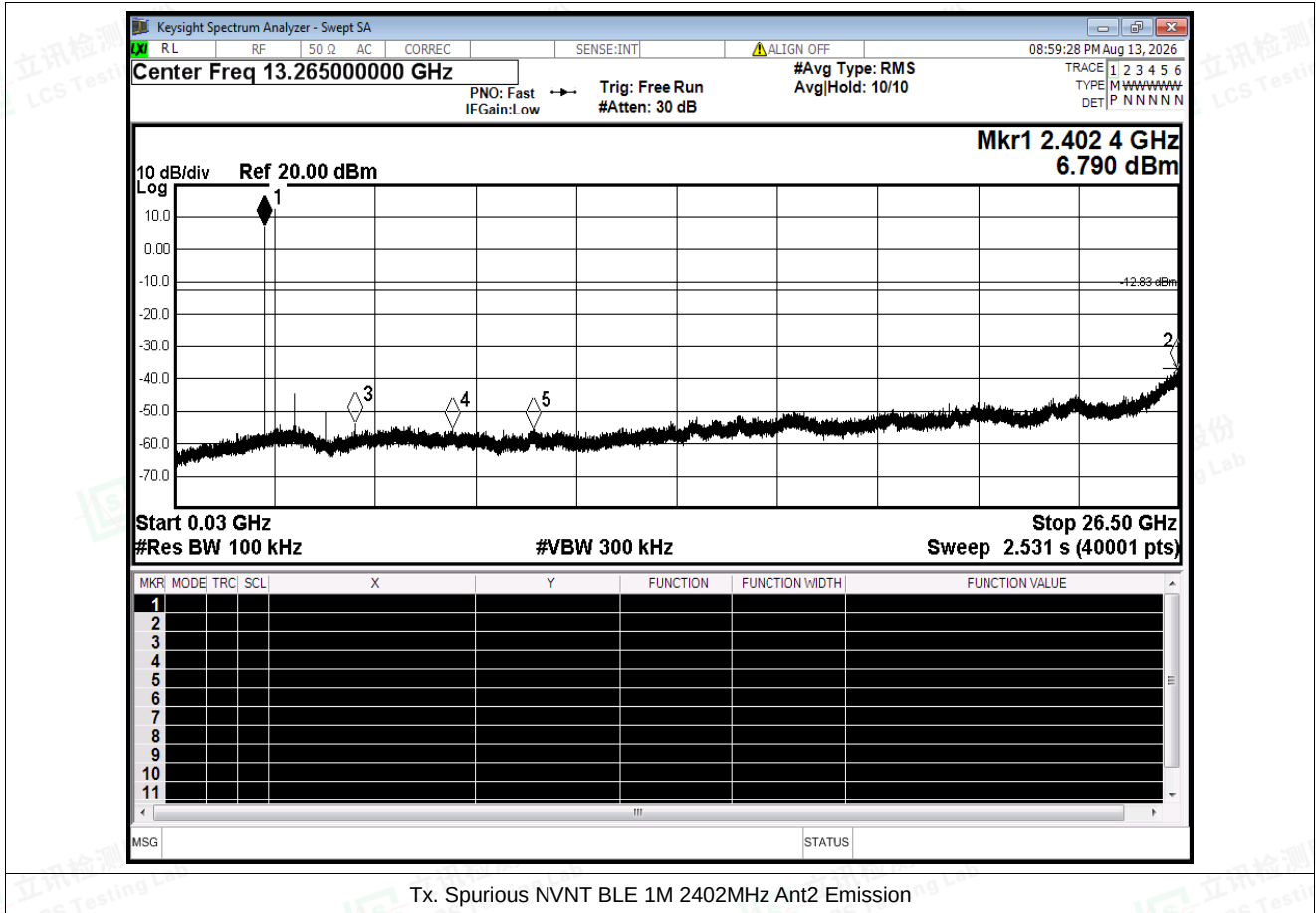


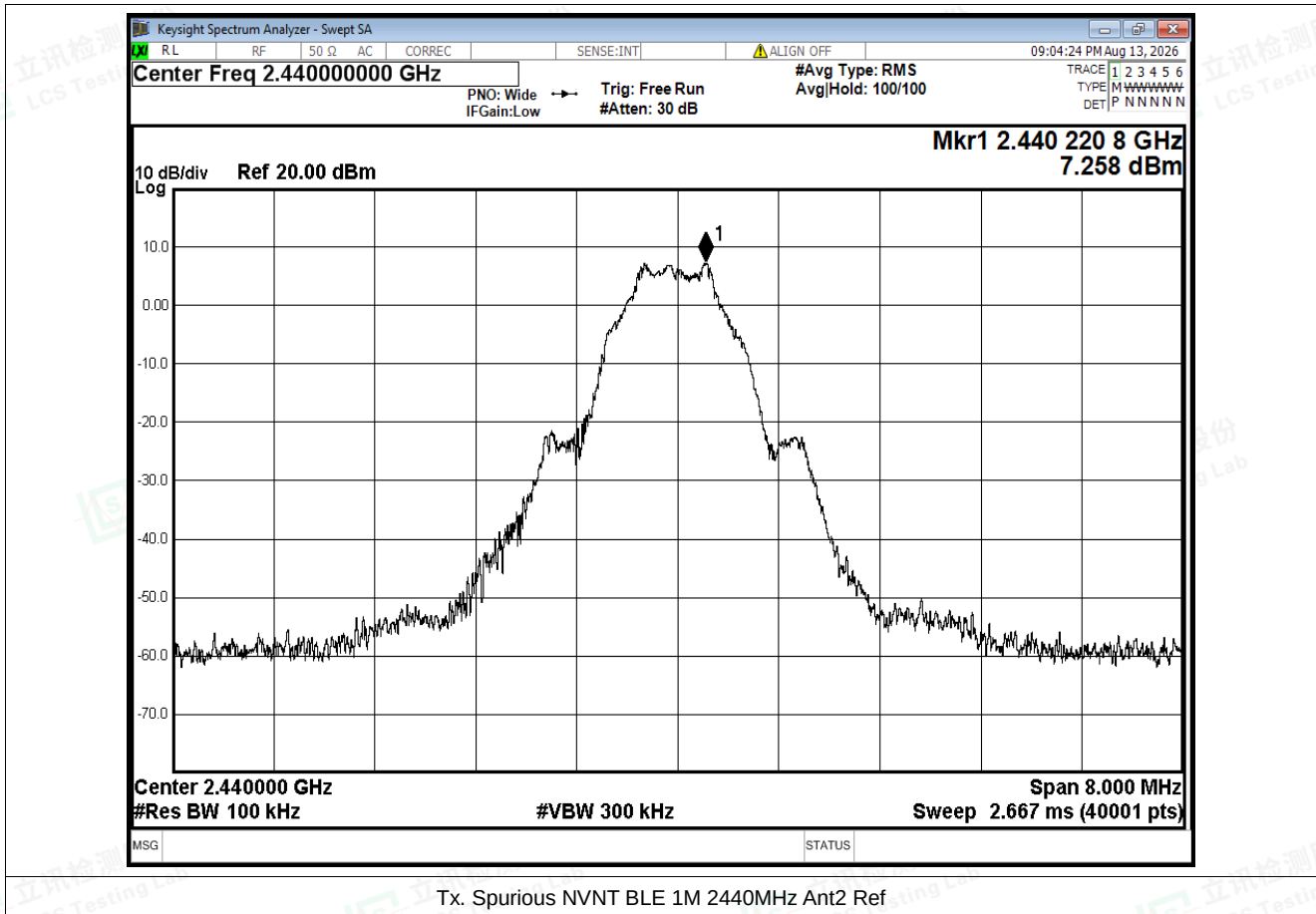


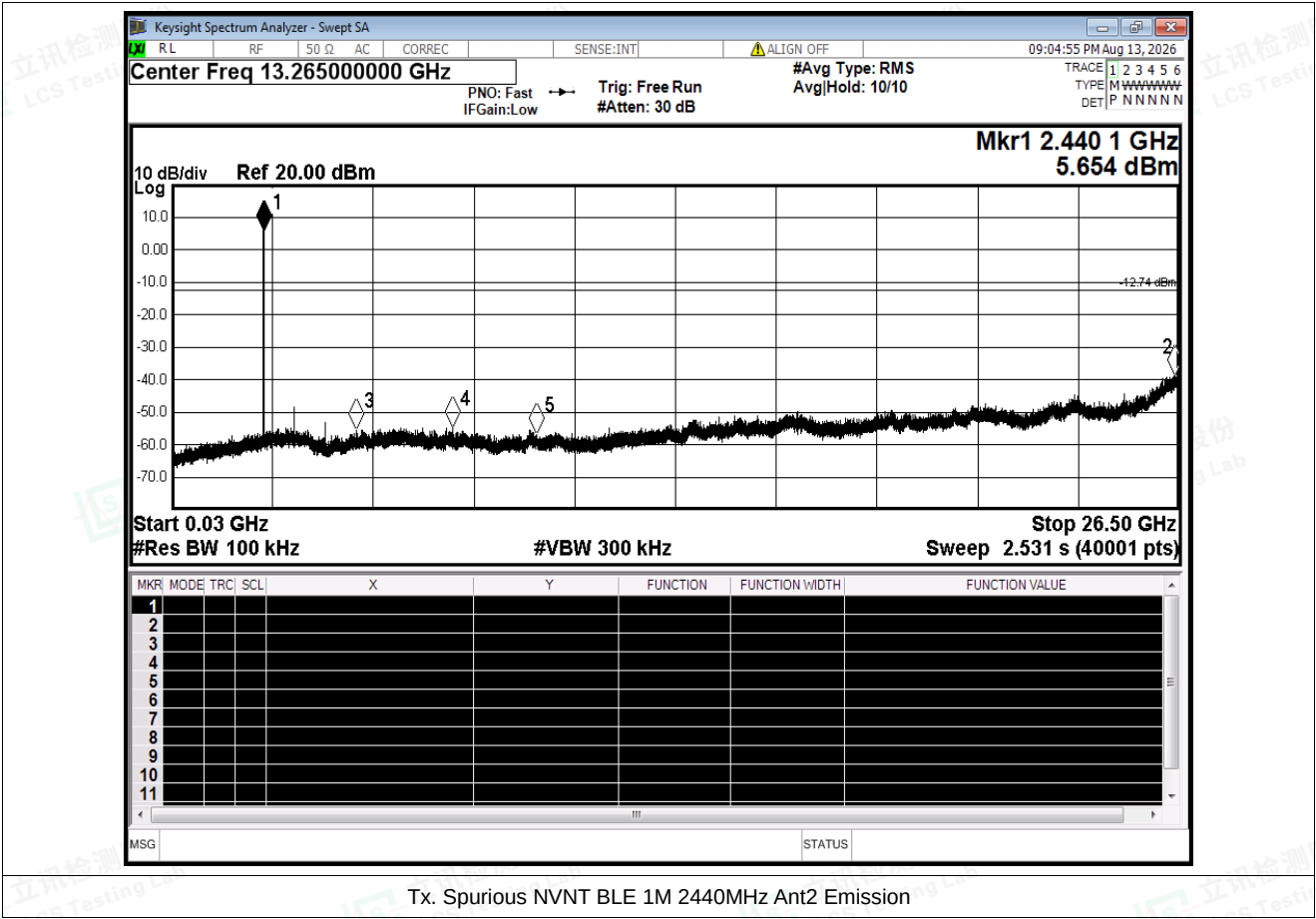
A.5 Conducted RF Spurious Emission

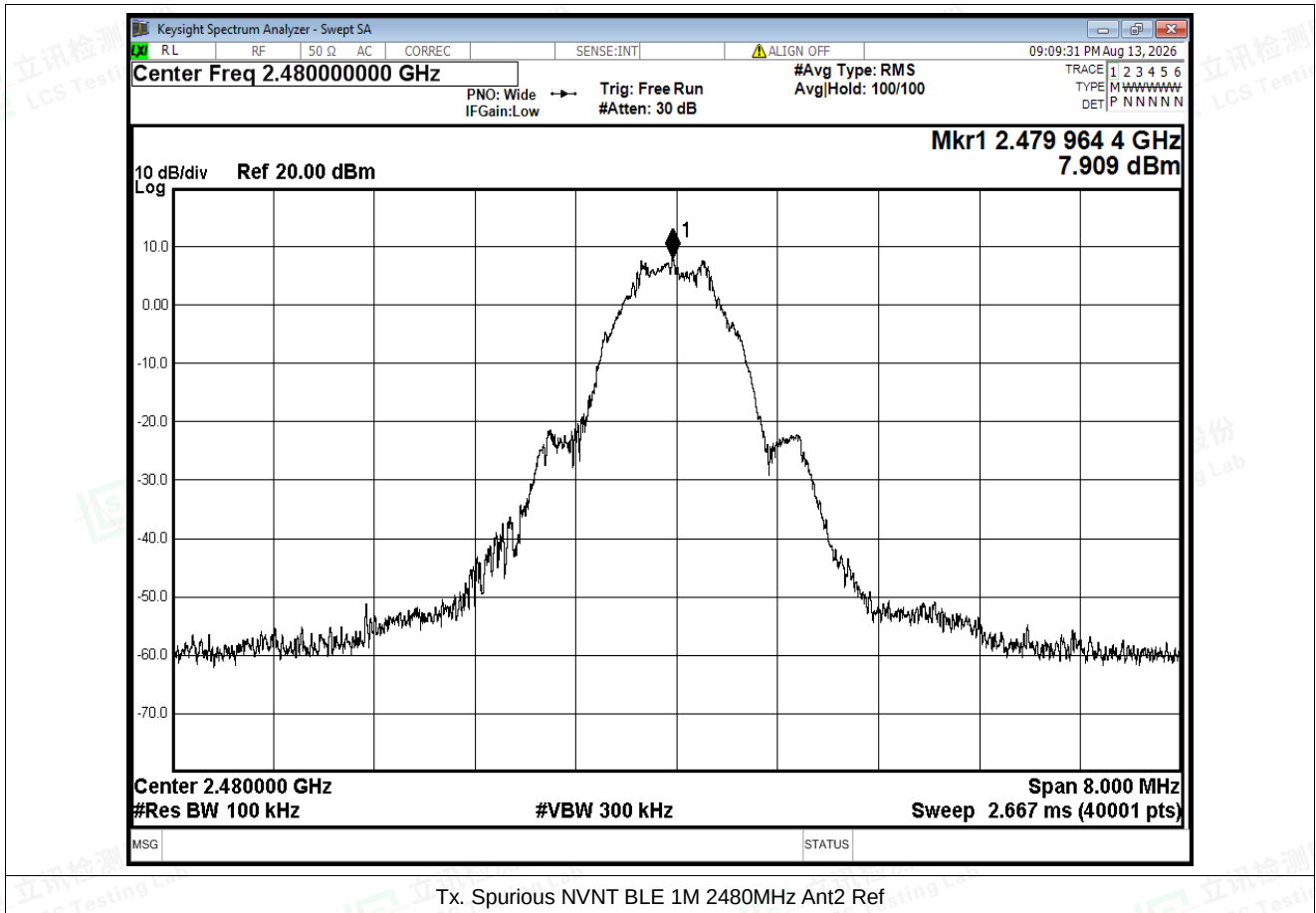
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant2	-44.26	-20	Pass
NVNT	BLE 1M	2440	Ant2	-46.05	-20	Pass
NVNT	BLE 1M	2480	Ant2	-45.94	-20	Pass

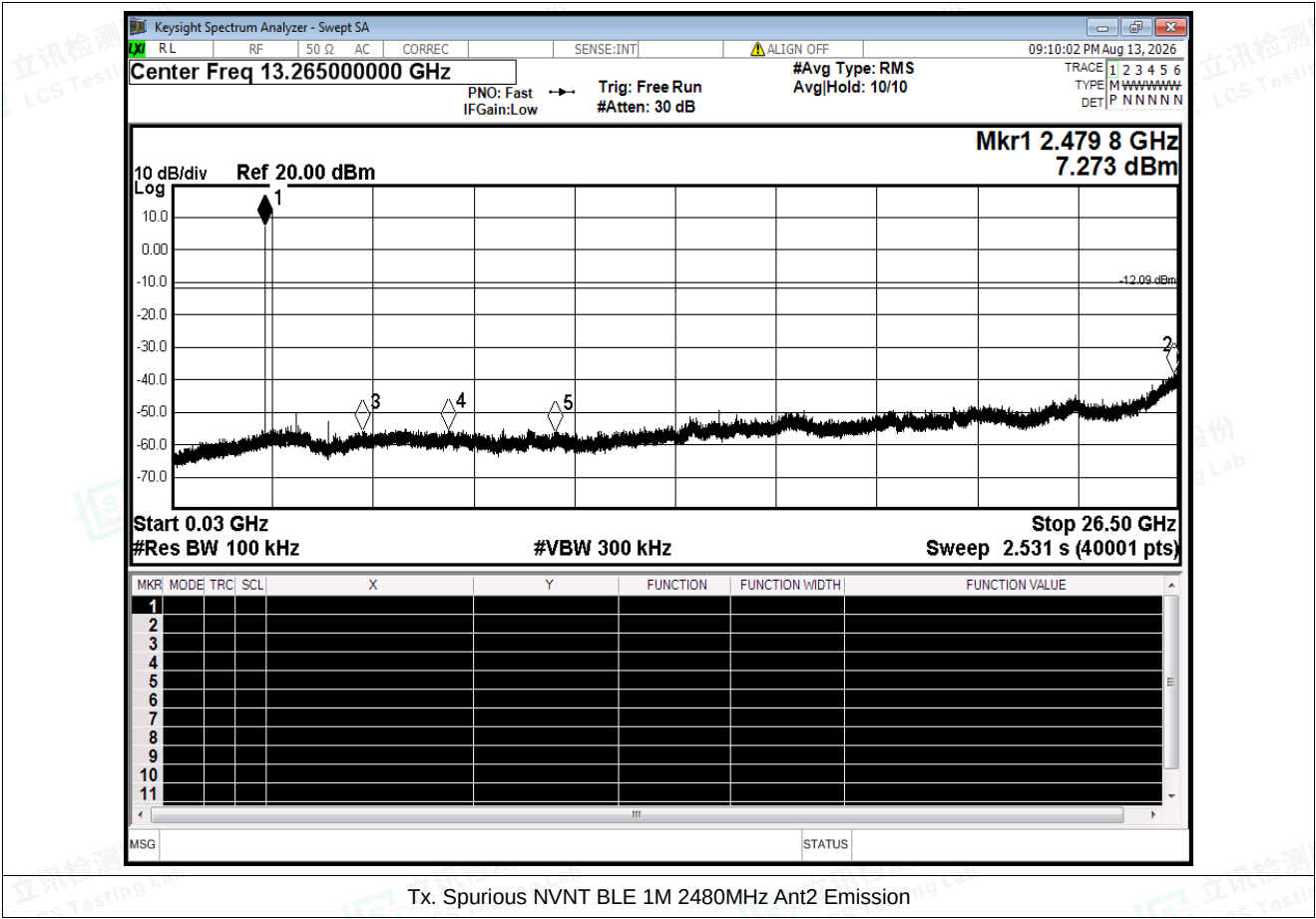








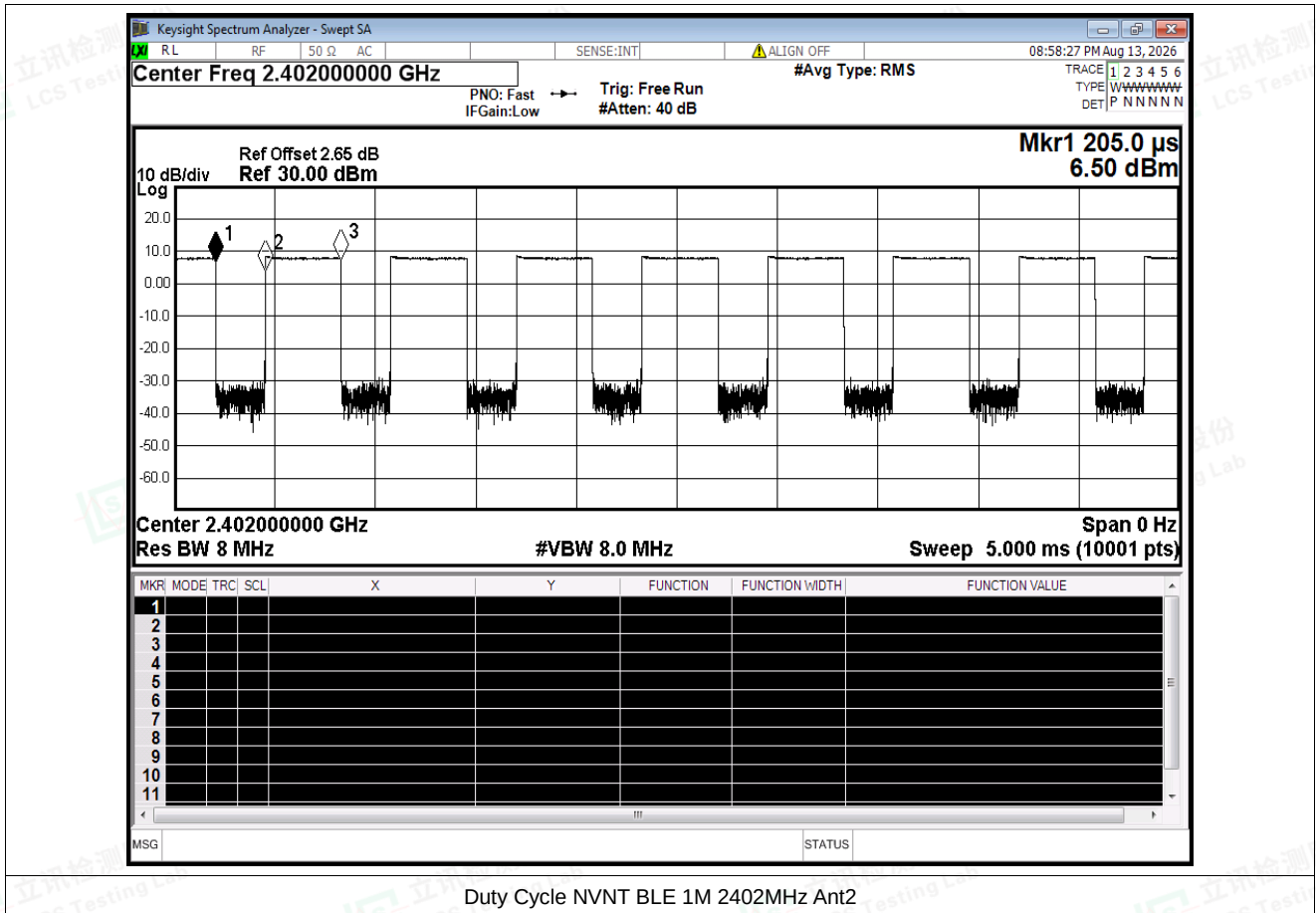


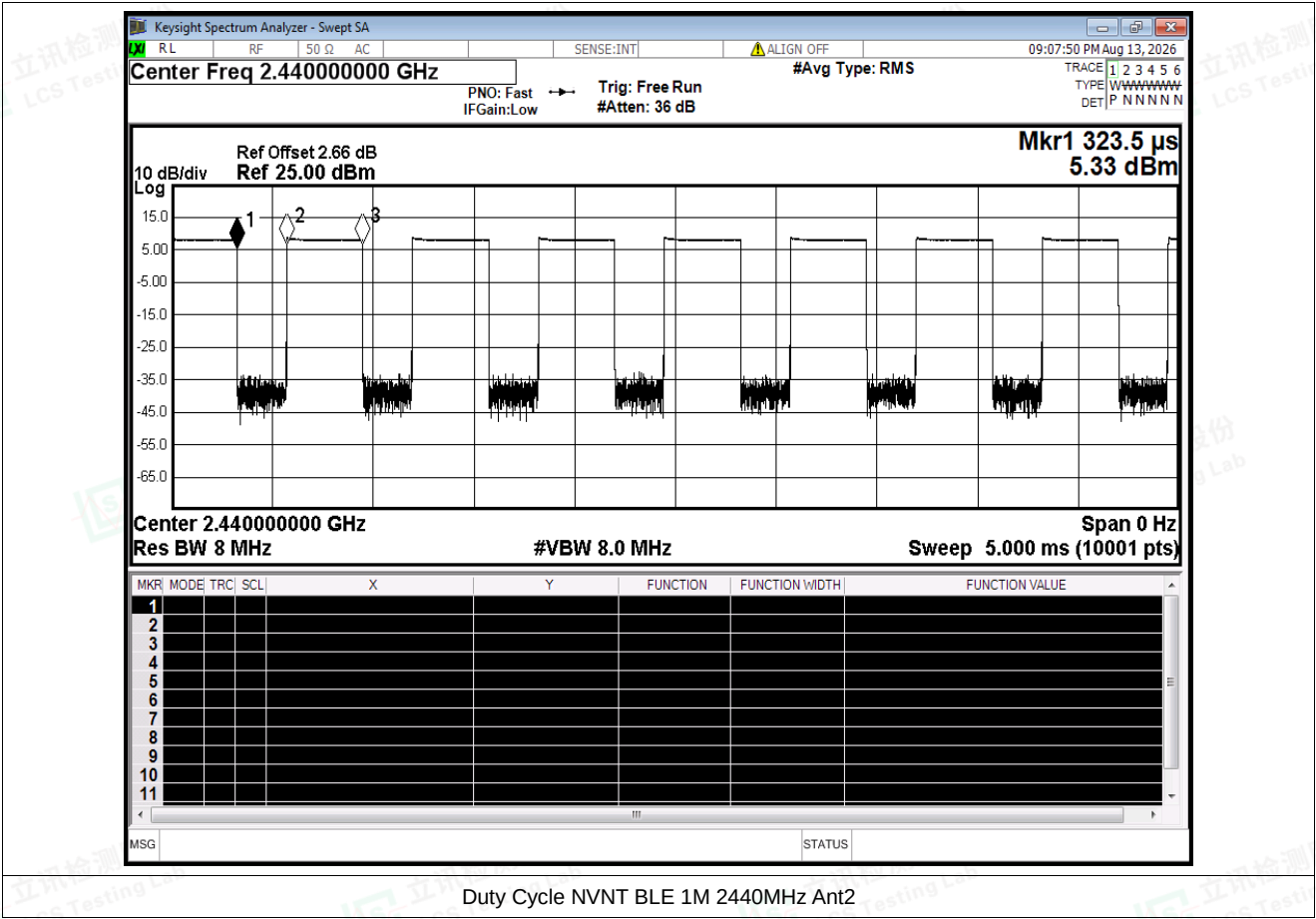


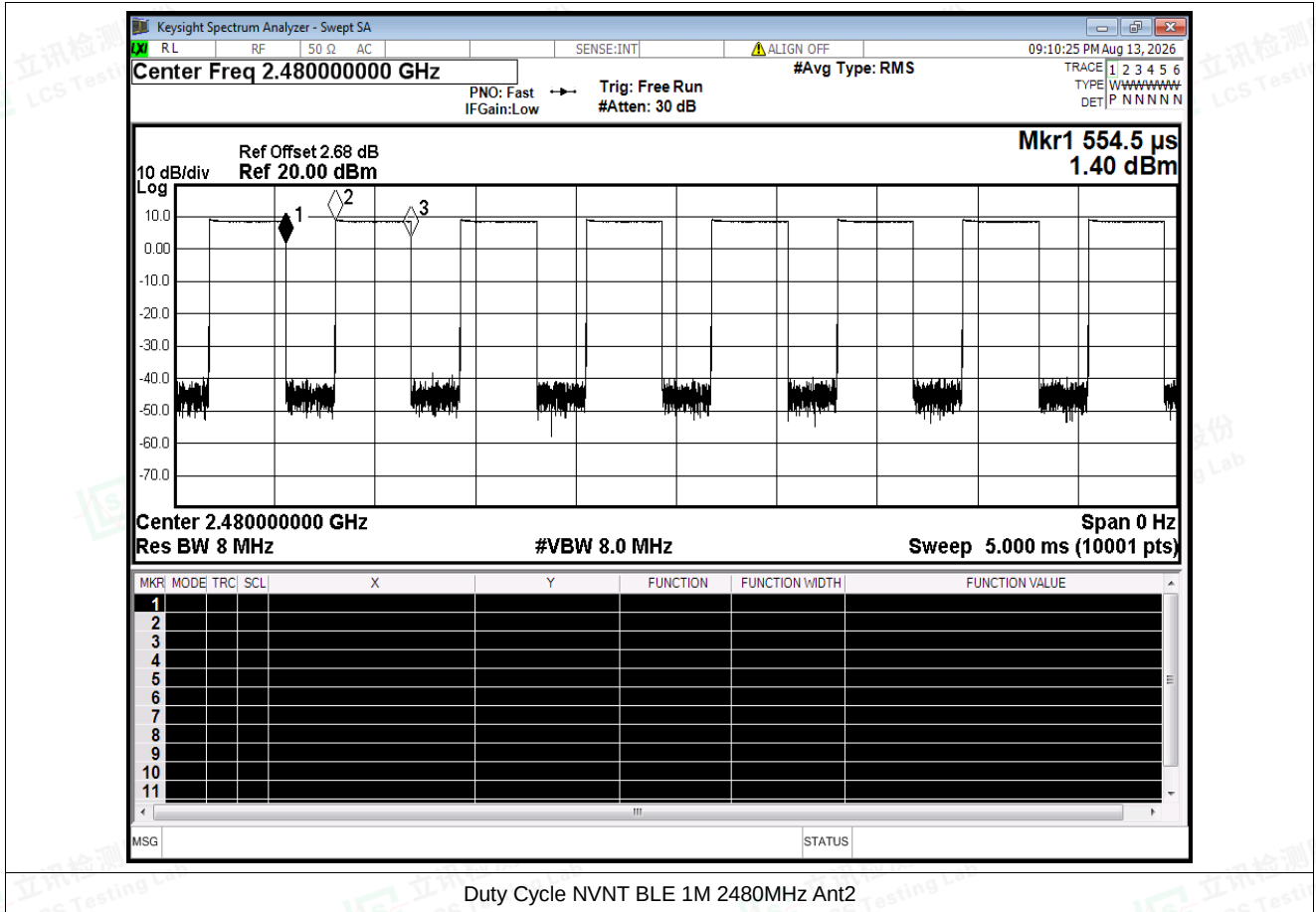


A.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant2	60.48	2.18	2.65
NVNT	BLE 1M	2440	Ant2	60.48	2.18	2.65
NVNT	BLE 1M	2480	Ant2	60.48	2.18	2.65









A.7 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant2	2310	-47.52	3.27	51.01	Peak	74	Pass
NVNT	BLE 1M	2402	Ant2	2310	-56.35	3.27	42.18	Average	54	Pass
NVNT	BLE 1M	2402	Ant2	2331.984	-47.24	3.27	51.29	Peak	74	Pass
NVNT	BLE 1M	2402	Ant2	2334.384	-55.8	3.27	42.73	Average	54	Pass
NVNT	BLE 1M	2402	Ant2	2390	-49.21	3.27	49.32	Peak	74	Pass
NVNT	BLE 1M	2402	Ant2	2390	-56.26	3.27	42.27	Average	54	Pass
NVNT	BLE 1M	2480	Ant2	2483.5	-48.33	3.27	50.20	Peak	74	Pass
NVNT	BLE 1M	2480	Ant2	2483.5	-49.44	3.27	49.09	Average	54	Pass
NVNT	BLE 1M	2480	Ant2	2488.072	-46.5	3.27	52.03	Peak	74	Pass
NVNT	BLE 1M	2480	Ant2	2483.512	-49.44	3.27	49.09	Average	54	Pass
NVNT	BLE 1M	2480	Ant2	2500	-49.61	3.27	48.92	Peak	74	Pass
NVNT	BLE 1M	2480	Ant2	2500	-56.12	3.27	42.41	Average	54	Pass

